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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/755,996	01/13/2004	Peter M. Bonutti	780-A03-021-5	1472
33771 7590 02/20/2009 PAUL D. BIANCO Fleit Gibbons Gutman Bongini & Bianco PL			EXAMINER	
			HOFFMAN, MARY C	
21355 EAST DIXIE HIGHWAY SUITE 115		ART UNIT	PAPER NUMBER	
MIAMI, FL 33180			3733	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/755,996 BONUTTI, PETER M. Office Action Summary Examiner Art Unit MARY HOFFMAN 3733 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 19 November 2008. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)\ Claim(s) 1.4-10.13.15.19.30-33.35.37-39.41 and 43-46 is/are pending in the application. 4a) Of the above claim(s) 33 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1,4-10,13,15,19,30-32,35,37-39,41 and 43-46 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 13 January 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper Ne(s)/Vail Date ____ Notice of Draftsparson's Patent Drawing Review (PTO-946)

Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date ______.

5) Notice of Informal Patent Application

6) Other:

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/19/2008 has been entered.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter or any new and useful improvement thereof, may obtain a patent therefore, subject to the conditions and requirements of this title.

Claims 43-46 are rejected under 35 U.S.C. 101 because they are drawn to nonstatutory subject matter. In claim 43, line 14, applicant positively recites part of a human, i.e. "the implant being fixed to only one of the bones". Thus claims 43-46 include a human within their scope and are non-statutory.

A claim directed to or including within its scope a human is not considered to be patentable subject matter under 35 U.S.C. 101. The grant of a limited, but exclusive property right in a human being is prohibited by the Constitution. *In re Wakefield*, 422 F.2d 897, 164 USPQ 636 (CCPA 1970).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this is also when the subject matter sought to be patented and the prior at are such that the subject matter sought to be patented and the prior at are such that the subject matter sought to be patented and the prior at are such that the subject matter sought to be patented and the prior at are such that the subject matter expensive the subject matter

Claims 1, 8-9, 13, 15, 19, 30-32, 35, 37-39, 41 and 43-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stone (U.S. Patent No. 6,008,433) in view of Michelson (U.S. Patent No. 5,609,635) and Henderson et al. (U.S. Patent No. 6,066,175).

Stone discloses an implantable device capable of reversibly changing a spatial relationship between a first bone and a second bone from a wide position to a narrow position, comprising a first surface capable of abutting the first bone in the wide position and the narrow position; a second surface capable of abutting the second bone in the wide position and the narrow position; and a body interconnecting the first surface and the second surface, the first surface maintaining an equal distance from the second surface when moving from the wide position to the narrow position (the device shown in FIG. 3C and 4A is capable of being inserted on its side and then be rotated 90 degrees). The implantable device is capable of being rotated via the pin about an axis to move between the wide position and the narrow position and not move longitudinally along the axis when moving from the wide position to the narrow position. The device comprises a bone growth promoting material (col. 6, lines 60-61). The implant is adapted to one connected to only one of the bones. The first surface tapers to form a

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pointed edge with the second surface. A side surface corresponding to the outer surface of the bone connects the first and second surfaces. The body has an open cellular structure to provide cavities in which bone can grow through (col. 6, lines 34-36). The body is made of a biocompatible metallic material (col. 6, lines 44-46). At least some of the cavities contain a bone growth promoting material. (col. 7, lines 8-14).

Stone discloses the claim invention except for 1.) the device being coated with a bone growth promoting material including a bone morphogenic protein; and 2.) a channel extending through both the first major surface and side surface, a second channel extending through both s second major surface and side surface, and screws angularly disposed in the channels and nested in the side surface. 3.) Stone also fails to disclose the second surface having no fastener to fix the second surface to the second bone.

- 1.) Michelson discloses using a coating of bone growth promoting material, wherein the bone growth promoting material includes a bone morphogenic protein, in order to promote bioactive fusion (col. 9, lines 20-24). It would have been obvious to one of ordinary skill in the art at the time the invention was made to construct the device of Stone with the coating of Michelson in order to promote bioactive fusion.
- 2.) Henderson et al. disclose an implantable device including a first channel extending through the first major surface and side surface, a second channel extending through a second major surface and side surface, and first and second screws angularly disposed in the channels and nested in the side surface in order to in order to provide

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means of attachment to the bone/additional bone fixation (ref. #48, 49, FIGS. 8-9, col. 9, lines 29-31). It would have been obvious to one of ordinary skill in the art at the time the invention was made to construct the device of Stone with a first channel extending through the first major surface and side surface, a second channel extending through a second major surface and side surface, and first and second screws angularly disposed in the channels and nested in the side surface in view of Henderson in order to provide means of attachment to the bone/additional bone fixation.

3.) It would have been obvious to one of ordinary skill in the art at the time the invention was made to construct the device of Stone in view of Michelson and Henderson et al. surface having no fastener to fix the second surface to the second bone, since such a modification would have been an obvious omission of a part. It can be seen in the other embodiments of Stone (e.g. 1A) that the device does not require fasteners, and the fasteners are only present to allow additional fixation.

Claims 4-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stone (U.S. Patent No. 6,008,433) in view of Michelson (U.S. Patent No. 5,609,635)) and Henderson et al. (U.S. Patent No. 6,066,175) further in view of Jefferies (U.S. Patent No. 4,394,370).

Stone in view of Michelson and Henderson disclose the claimed invention except for the coating being apatite compositions such as demineralized bone powder and collagen.

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Jefferies teaches both demineralized bone powder and collagen as materials to induce the formation of osseous tissue (Abstract).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the coating of the Stone in view of Michelson and Henderson to include demineralized bone powder and collagen in view of Jeffries, since those materials are well known in the art of bone fusion as materials to induce the formation of osseous tissue.

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Stone (U.S. Patent No. 6,008,433) in view of Michelson (U.S. Patent No. 5,609,635) and Henderson et al. (U.S. Patent No. 6,066,175) further in view of Zdeblick et al. (U.S. Patent No. 5,669,909).

Stone in view of Michelson and Henderson disclose the claimed invention except for using tantalum.

Zdeblick et al. teaches using porous tantalum in implants to allow bone ingrowth.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to construct the device of Stone in view of Michelson and Henderson using tantalum in view of Zdeblick et al. to allow bone ingrowth.

Response to Arguments

Applicant's arguments filed 10/20/2008 have been fully considered but they are not persuasive.

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Applicant argues that the addition of the amendment "said second surface having no fastener to fix said second surface to the second bone to the independent claims is sufficient to overcome the cited prior art. The examine respectfully disagrees, and maintains that it would have been obvious to one of ordinary skill in the art at the time the invention was made to construct the device of Stone in view of Michelson and Henderson et al. surface having no fastener to fix the second surface to the second bone, since such a modification would have been an obvious omission of a part. It can be seen in the other embodiments of Stone (e.g. 1A) that the device does not require fasteners, and the fasteners are only present to allow additional fixation.

The rejections are deemed proper.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARY HOFFMAN whose telephone number is (571)272-5566. The examiner can normally be reached on Monday-Thursday 10:00-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo C. Robert can be reached on 571-272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M. H./ Examiner, Art Unit 3733

/Todd E Manahan/

Supervisory Patent Examiner, Art Unit 3734